

Monprene® SP-14966

Thermoplastic Elastomer

Teknor Apex Company

Message:

Monprene SP-14966 is a high performance thermoplastic elastomer that is designed for a variety of consumer applications including water sporting goods. Monprene SP-14966 is a translucent, medium hardness, low density, UV resistant, high flow grade that is designed for injection molding.

General Information	
Features	Low Specific Gravity
	Low density
	Moisture resistance
	Good UV resistance
	Good formability
	Good flexibility
	Good coloring
	Good adhesion
	High liquidity
	Good chemical resistance
	Good wear resistance
	Good weather resistance
	Good toughness
	Elastic
	Medium hardness
Uses	Water Sports Equipment
	Handle
	Plug
	Washer
	Washer
	Soft touch application
	Soft handle
	Sporting goods
	Stationery
	Rubber substitution
	Consumer goods application field
	Swimming Pool Supplies
RoHS Compliance	RoHS compliance
Appearance	Translucent
	Natural color

Forms	Particle
Processing Method	Extrusion
	Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.888	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	27	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shaw A	70		ASTM D2240
Shaw A, 5 seconds	68		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% strain	3.62	MPa	ASTM D412
Flow: 300% strain	5.34	MPa	ASTM D412
Tensile Strength - Flow (Break)	11.9	MPa	ASTM D412
Tensile Elongation - Flow (Break)	700	%	ASTM D412

Legal statement

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Injection	Nominal Value	Unit
Rear Temperature	182 - 232	°C
Middle Temperature	188 - 238	°C
Front Temperature	193 - 243	°C
Nozzle Temperature	199 - 249	°C
Processing (Melt) Temp	199 - 249	°C
Mold Temperature	35 - 49	°C
Injection Pressure	1.38 - 5.52	MPa
Injection Rate	Fast	
Back Pressure	0.172 - 0.689	MPa
Screw Speed	50 - 100	rpm
Cushion	3.81 - 25.4	mm

Injection instructions

Drying is not necessary. However, if moisture is a problem, dry the pellets for 2 to 4 hours at 150°F (65°C).

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	182 - 232	°C
Cylinder Zone 2 Temp.	188 - 238	°C

Cylinder Zone 3 Temp.	193 - 243	°C
Cylinder Zone 4 Temp.	193 - 243	°C
Cylinder Zone 5 Temp.	199 - 249	°C
Die Temperature	199 - 249	°C

Extrusion instructions

Screw Speed: 30 to 100 rpm

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